

What is claimed is:

1. An optical disk drive apparatus, for reading-out information from an optical disk, having a plural number of information recording layers made up in a direction of rotation axis thereof, through irradiating a light beam upon the information recording layer, and for transferring the information read out to a host-computer, responding to a transfer request from said host-computer, comprising:

a memory configured to memorize the information read out from said information recording layers; and

a processor configured to control said memory, wherein:

said processor supervises accesses to each of said plural number of the information recording layers, and memorizes information which follows information, upon which a transfer request is made from said host-computer, into a predetermined area of said memory, upon basis of a frequency of the accesses obtained through the supervision thereof.

2. The optical disk drive apparatus, as described in the claim 1, wherein said memory comprises said predetermined areas in a plural number thereof, being equal to or greater than two (2).

3. The optical disk drive apparatus, as described in the claim 1, wherein said processor further makes management on the access frequency for each of information recorded in each layer of said optical disk, from which the information is read out.

4. A method for reproducing data, comprising, the following steps of:

reading out information from an information recording layer, by irradiating a light beam upon an optical disk having a plural number of the information recording layers, being piled up in a

direction of rotation axis thereof, in accordance with a transfer request from a host-computer;

memorizing the information read out from said information recording layer into a memory;

5 transferring the information memorized in said memory to said host-computer; and

 supervising an access to an each layer of said plural number of the information recording layers, and memorizing information, which follows information, upon which the transfer request is made
10 from said host-computer, into a predetermined area of said memory, upon basis of a frequency of the accesses obtained through the supervision thereof.

 5. The method for reproducing data, as described in the claim 4, wherein said memory comprises said predetermined areas
15 in a plural number thereof, being equal to or greater than two (2).

 6. The method for reproducing data, as described in the claim 4, wherein the supervision on the access frequency is made for an each layer of those layers of said optical disk, from which
20 the information is read out.